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(71) Syn-Tech Chemical Manufacturing Inc., CA
(51) Int.Cl.⁶ A01N 61/00, A01N 25/30, C11D 3/43
(54) **COMPOSITION NON AQUEUSE DE PROTECTION,
POLISSAGE, DESINFECTION, DEGRAISSAGE,
DESODORISATION, LUBRIFICATION ET NETTOYAGE DE
MEUBLES EN BOIS**
(54) **WATERLESS COMPOSITION FOR PROTECTING, POLISHING,
DISINFECTING, DEGREASING, DEODORIZING,
LUBRICATING AND CLEANING THE WOOD FURNITURE**

(57) Mélange à base d'une composition organique pour application ponctuelle en une seule étape sur le bois, la céramique, le métal, les ventilateurs de cuisine ou d'autres surfaces dures; il sert comme désinfectant, germicide, fongicide, insecticide, désodorisant, dégraissant et lubrifiant, tout en maintenant un excellent brillant et en assurant une protection supérieure contre l'oxydation et les dommages par la lumière solaire. La composition liquide est appliquée ponctuellement sur le bois ou d'autres matériaux à l'aide d'un linge d'essuyage sec, d'une serviette sèche, d'une éponge sèche ou d'un autre article analogue. La composition comprend environ, en poids: a) 5-20 % d'huile minérale, b) 30-70 % de limonène, c) 5-20 % d'huile de pin, d) 0-5 % de surfactifs mixtes, e) 1-10 % de co-solvant.

(57) A blend mixture of organic composition for topical application to wood, ceramic, metal, kitchen ventilator or other hard surface articles serves as a disinfectant, germicide, fungicide, insecticide, deodorant, degreaser, lubricant while maintaining excellent gloss and superior protection against oxidation and sunlight damage in a one-step application is described. The liquid composition is topically applied to wood or other articles by means of a dry fine wiping cloth, a dry napkin or a dry sponge or the like. The composition comprises about, a) 5-20% by weight mineral oil, b) 30-70% by weight D'limonene, c) 5-20% by weight pine oil, d) 0-5% by weight mixed surfactants, and e) 1-10% by weight co-solvent.

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Abstract

**"Waterless Composition For Protecting, Polishing, Disinfecting, Degreasing, Deodorizing,
Lubricating And Cleaning The Wood Furniture"**

A blend mixture of organic composition for topical application to wood, ceramic, metal, kitchen ventilator or other hard surface articles serves as a disinfectant, germicide, fungicide, insecticide, deodorant, degreaser, lubricant while maintaining excellent gloss and superior protection against oxidation and sunlight damage in a one-step application is described. The liquid composition is topically applied to wood or other articles by means of a dry fine wiping cloth, a dry napkin or a dry sponge or the like. The composition comprises about, a) 5-20% by weight mineral oil, b) 30-70% by weight D'limonene, c) 5-20% by weight pine oil, d) 0-5% by weight mixed surfactants, and e) 1-10% by weight co-solvent.

15 Claims, No Drawings

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**"Waterless Composition for Protecting, Polishing, Disinfecting, Degreasing, Deodorizing,
Lubricating and Cleaning the Wood Furniture"**

Background of the Invention

1. Field of the Invention

The present invention relates generally to compositions for protecting, polishing, disinfecting, degreasing, deodorizing, lubricating and cleaning various articles such as wood
5 furniture, metal surface, kitchen ventilator, ceramic surface and dry wall surface.

2. Description of the Prior Art

Wood furniture polish compositions are well known. Such compositions comprise shellac, lacquers, varnish and wax emulsion. The latter usually consist of blends of mineral, vegetable, silicone and/or essential oils, waxes and small amount of water. While these wax emulsions are
10 easy to apply, they tend to leave a greasy film and they do not provide much protection against sunlight, moisture, insects, fungi, germ and mould.

It is desirable for a furniture polish to aid in cleaning and protecting the furniture from insect invasion, fungi attack, mould formation, moisture, odoring, severe oil stain, finger marking, crayon marking, food and drink stains and other surface deposits.

Summary of the Invention

To achieve the foregoing and other advantages, the present invention, briefly described, provides an organic based composition for topical application to wood or other articles so as to serve as a

cleaner, degreaser, disinfectant, deodorant, lubricant, polish and protective finish. The composition comprises mineral oil dispersed in mixture of dipentene (also known as D'limonene), terpene alcohols and terpineol (also known as pine oil) and the extender, preferably, isopropanol and relatively small amounts of additives including blend mixture of surfactants and so on. The said organic composition is topically applied to wood or other articles by means of a fine wiping cloth or a dry clean napkin. Little buffing is required for better glossiness. Once applied, the composition imparts a non-greasy, rich luster to the surface of an article (e.g. wood furniture).

The above brief description sets forth rather broadly the more important features of the present invention in order that the detailed description thereof that follows may be better understood, and in order that the present contributions to the art may be better appreciated. There are, of course, additional features of the invention that will be described hereinafter and will form the subject matter of the claims appended hereto.

In this respect, before explaining the preferred embodiments of the invention in detail, it is to be understood that the invention is not limited in its application to the details of the construction and to the arrangements of the components set forth in the following description. The invention is capable of other embodiments and of being practiced and carried out in various ways. Also, it is to be understood, that the phraseology and terminology employed herein are for the purpose of description and should not be regarded as limiting.

As such, those skilled in the art will appreciate that the conception, upon which this disclosure is based, may readily be utilized as a basis for designing other structures, methods and systems for carrying out the several purposes of the present invention. It is important, therefore, that the

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The resulting composition had a milky emulsion consistency. It was readily applied to the surface of dry wall or leather by a cloth imparting a rich luster to the dry wall or leather and leaving a protective film.

5 While the present invention has been fully described above with particularity and detail in connection with what is presently deemed to be the most practical and preferred example(s) of the invention, it will be apparent to those of ordinary skill in the art that many modifications thereof may be made without departing from the principles and concepts set forth herein. Hence, the proper scope of the present invention should be determined only by the broadest interpretation of the appended claims so as to encompass all such modifications.

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The Embodiments of the Invention in which an exclusive property or privilege is claimed are defined as follows:

1. An organic composition useful as disinfectant, germicide, fungicide, insecticide, deodorant, degreaser, lubricant and polish for wood furniture, kitchen's ventilation hood, ceramic tile, metal surface and dry wall.

2. The new and improved composition of claim 1 comprising, by weight of the total composition of:

- a) 10 to 80% of blend of oils selected from the class consisting of mineral oil and other essential oils,
- b) 1 to 10% of co-solvent, and
- c) 1 to 5% of surfactants.

3. The composition of claim 2 containing in addition to said oil, D'limonene in an amount up to 70% by weight of said composition.

4. The composition of claim 2 containing in addition to said oil, D'limonene in an amount up to 60% by weight of said composition.

5. The composition of claim 2 containing in addition to said oil, pine oil in an amount up to 20% by weight of said composition.

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The foregoing liquid phase composition is easily be stored in PVC bottle or can and simply may be applied to the surface of an article being treated by spraying and then spreading with a lint-free soft absorbent cloth, dry clean napkin, dry sponge or the like. The composition may also be applied by wiping or brushing with a cloth, napkin or sponge. The preferred method of application is by aerosol spray. The general practice for applying this composition is to hold the container in an upright position, and then spraying the composition onto the surface from a distance of approximately 16 centimeters (about 6.5 inches). The surface is wiped with a clean soft absorbent cloth after 20 seconds. The surface may be buffed additionally to the desired shine. Alternately, the spray may be directed to a soft absorbent cloth and the thus treated cloth wiped onto the surface to be cleaned and polished. When so applied, the composition deposits a protective long wearing transparent film on the surface of the article, the liquid composition also functions as a cleaner, disinfectant, lubricant, deodorant, polish, germicide, fungicide and degreaser. Hence, the composition of the invention is ideally suited as a finish to be applied to wood furniture, carbinets, kitchen ventilators, laminated table tops, ceramic tiles and so on. The composition of the invention removes dust, stains, adhesive glue, grime and crayon marking and leaves a non-greasy, rich luster to the treated surface. The composition may also be applied to metallic articles as a cleaner, polish, lubricant and rust preventative.

In addition to those already described above, additional ingredients optionally may be added to the composition of the invention. For example, if a particular cleaning power for cleaning the dry wall without demolishing the paint is desired, water may be added in an amount up to 50% by weight.

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The following Examples further illustrate the preferred embodiments of the invention, but are not to be construed as limiting.

Example 1

The following ingredients were mixed together to form an example of the composition of the invention (all quantities are stated as weight percent):

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Mineral Oil	10%
D'Limonene	60%
Pine Oil	25%
Surfactants	3%
Isopropanol	2%
Total	100%

The resulting composition was stable in liquid form and was easily spreadable upon surface of the wood furniture by a sponge imparting a non-greasy, rich luster to the wood and leaving a transparent protective film that prevent insects, mould, germ and fungi from attacking.

15 Example 2

The following ingredients were mixed together to form an example of the composition of the invention (all quantities are stated as weight percent):

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Mineral Oil	5%
D'Limonene	30%
Pine Oil	12.5%
Surfactants	1.5%
Isopropanol	1%
Water	50%
Total	100%

claims be regarded as including such equivalent constructions insofar as they do not depart from the spirit and scope of the present invention.

Further, the purpose of the foregoing Abstract is to enable the Canadian Intellectual Property Office (CIPO) and the public generally, and especially the scientists, engineers and practitioners in the art who are not familiar with patent or legal terms of phraseology, to determine quickly from a cursory inspection the nature and essence of the technical disclosure of the application. Accordingly, the Abstract is neither intended to define the invention or the application, which only is measured by the claims, nor is it intended to be limiting as to the scope of the invention in any way.

It is therefore an object of the present invention to provide a new and improved composition for protecting, polishing, disinfecting, degreasing, deodorizing, lubricating and cleaning the surface of various articles and which has all of the advantages of the prior art and none of the disadvantages.

It is another object of the present invention to provide a new and improved composition for protecting, polishing, disinfecting, degreasing, deodorizing, lubricating and cleaning the surface of various articles which may be efficiently manufactured and marketed.

An even further object of the present invention is to provide a new and improved composition for protecting, polishing, disinfecting, degreasing, deodorizing, lubricating and cleaning the surface of various articles which is susceptible of a low cost of manufacture with regard to both materials and labor, and which accordingly is then susceptible of low prices of sale to the consuming public, thereby making such composition available to the buying public.

Still yet a further object of the present invention is to provide a new and improved composition for protecting, polishing, disinfecting, degreasing, deodorizing, lubricating and cleaning the

surface of various articles and which is adapted to be topically applied to such articles in a colourless thin liquid, easily sprayable form.

It is still a further object of the present invention to provide a new and improved composition that may be topically applied to various articles to add a non-greasy, rich luster to same.

- 5 These together with still other objects of the invention, along with the various features of novelty which characterize the invention, are pointed out with particularity in the claims forming a part of this disclosure. For a better understanding of the invention, its operating advantages and the specific objects attained by its uses, reference should be made to the following detailed description of the preferred embodiments of the invention.

10 **Description of the preferred Embodiment**

The new and improved composition of the present invention comprises a mineral oil dispersed in D'limonene and pine oil to produce a transparent oily liquid, easily applied and spreadable phase.

- 15 The component comprises mineral oil dispersed in the mixture of D'limonene and pine oil with mineral oil being present in the said mixture in an amount by weight up to about 20%, with about 10% being mostly preferred. The D'limonene present in the said mixture in an amount by weight up to about 70%, with about 60% being mostly preferred. The pine oil present in the said mixture in an amount by weight up to about 30%, with about 25 % being mostly preferred. The component also comprises mixture of surface active agents in an amount by weight up to 3%. A mostly preferred composition comprises a mixture of 10% mineral oil, 60% D'limonene, 25%
20 pine oil, 3% surface active agents and 2% isopropanol by weight.

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6. The composition of claim 2 containing in addition to said oil, pine oil in an amount up to 10% by weight of said composition.
7. The composition of claim 2 containing in addition to said oil, mineral oil in an amount up to 20% by weight of said composition.
8. The composition of claim 2 containing in addition to said oil, mineral oil in an amount up to 10% by weight of said composition.
9. The composition of claim 2 containing surfactants in an amount less than 5% by weight of said composition.
10. The composition of claim 2 containing co-solvent in an amount less than 8% by weight of said composition.
11. The composition of claim 9 containing wherein said surfactants comprises 0.5-2% of alkylphenoxypoly(oxyethylene)ethanols by weight of said composition.
12. The composition of claim 9 containing wherein said surfactants comprises 0.5-1% of Neodol Ethoxylates by weight of said composition.

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13. The composition of claim 9 containing wherein said surfactants comprises less than 0.5% of Neodol Ethoxylates by weight of said composition.
14. The composition of claim 10 containing wherein said co-solvent comprises 0.5-5% of isopropanol by weight of said composition.
15. The composition of claim 10 containing wherein said co-solvent comprises 0.5-2% of ethanol by weight of said composition.